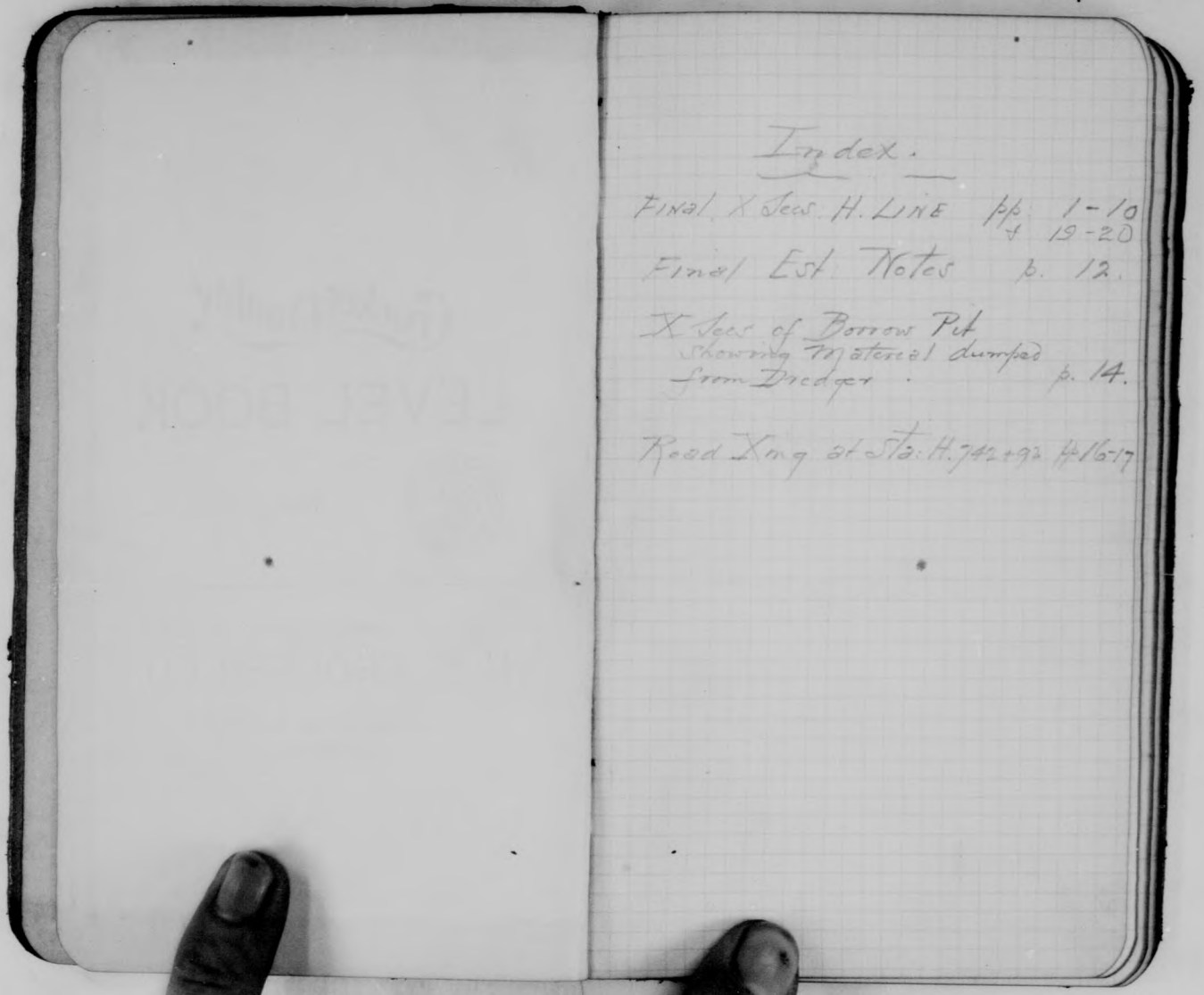
1698


Index.
Final X Secs. H. Line pp. 1-10 + 19-20
Final Est. Notes p. 12.
X Secs of Borrow Pit Showing Material dumped from Dredger p. 14.
Road Xing at Sta: H. 742+92 #16-17

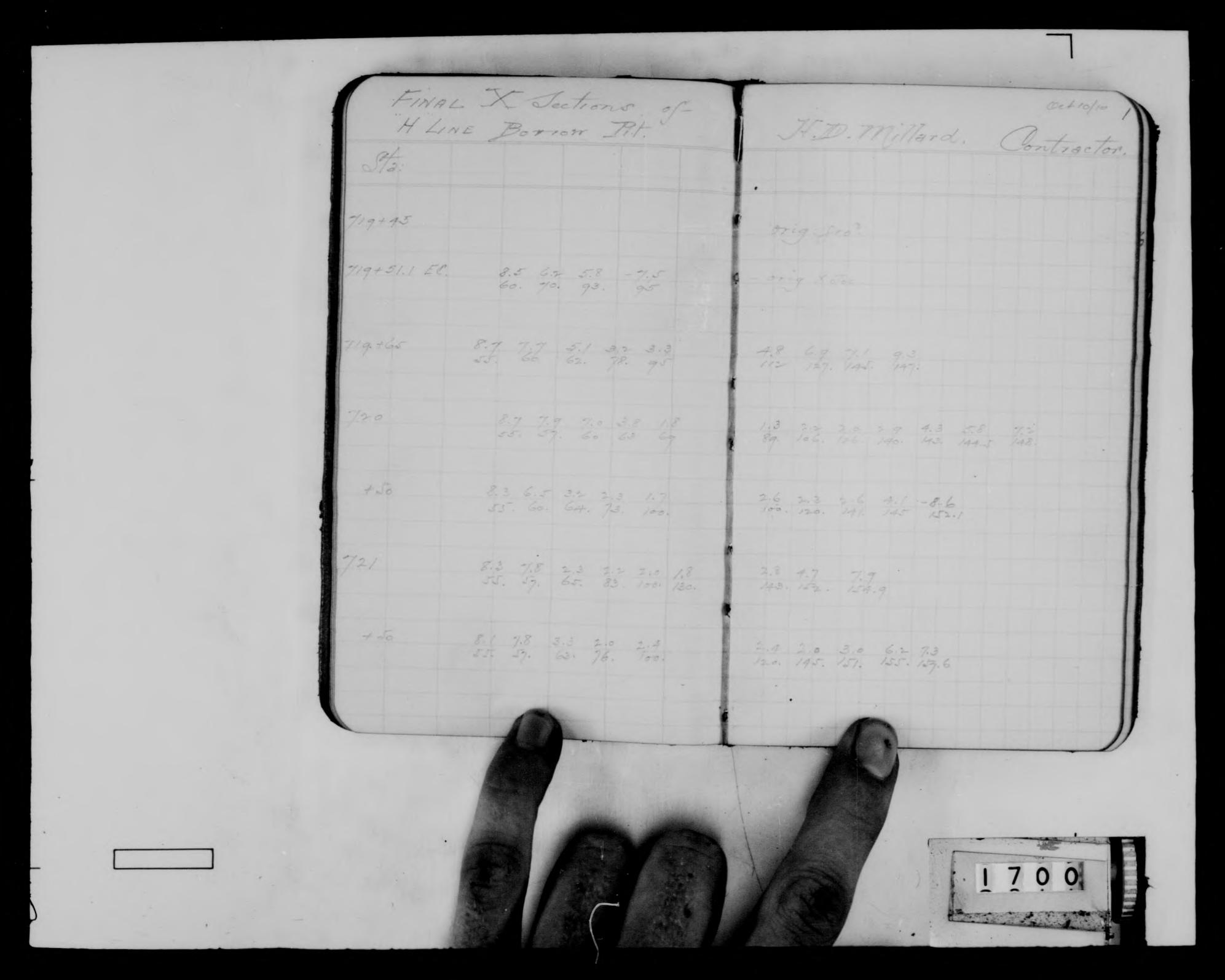
1699

FINAL X Sections of
"H LINE Borrow Pit.

Oct 10/10 1

H.D. Millard. Contractor.

Sta:												
719+45							Orig. Grd.					
719+51.1 EC.	8.5	6.7	5.8	-7.5			Orig. Grd.					
	60.	70.	93.	95								
719+65	8.7	7.7	5.1	3.7	3.3		4.8	6.9	7.1	9.3		
	55.	66	62.	78.	95		112	137.	145.	147.		
720	8.7	7.9	7.0	3.8	1.8		1.3	2.7	3.0	3.9	4.3	5.8	7.2
	55.	57.	60	63	69		89	102.	106.	140.	142.	144.5	148.
+50	8.3	6.5	3.7	2.3	1.7		2.6	2.3	2.6	4.1	-8.6		
	55.	60.	64.	73.	100.		100.	120.	141	145	152.1		
721	8.3	7.8	2.3	2.7	2.0	1.8	2.3	4.7	7.9				
	55.	57.	65.	83.	100.	120.	143.	142.	154.9				
+50	8.1	7.8	3.3	2.0	2.4		2.9	2.0	3.0	6.2	7.3		
	55	57.	62.	76.	100.		120.	145.	151.	155.	157.6		



Final X Sections
"H" Line Borrow Pit

H. D. Millard
Contractor

Sta.											
722	7.9	7.2	2.5	1.8	1.6		2.0	3.1	4.6	4.6	
	55.	58.	65.	100.	122.		149.	153.	155.	158.	
+50	7.4	7.2	2.9	2.5	1.5		2.2	2.1	2.1	4.7	5.3
	55	57.	63	74.	100.		120.	152.	150	159.	161.
723	8.0	7.7	3.6	2.0	1.8		2.8	2.7	2.5	2.8	4.5	4.6
	55.	58.	63.	75.	100.		120.	130.	150	158.	160.	162.
+50	7.7	7.3	4.8	2.7	2.3		1.9	1.9	1.9	2.9	4.3	
	55.	57.	64.	82.	100		126.	130.	152.	159.	161.	
724.	7.8	7.6	5.5	2.1	1.3	1.8	1.5	1.7	2.3	4.4	4.6	
	55.	56.	60.	62.	80.	100.	117.	133.	161.	165.	166.	
+50	7.8	7.7	5.8	3.3	2.2	1.8	1.7	1.4	2.0	2.6	4.1	4.3
	55.	57.	60.	63	68.	92.	120.	135.	162.	165.	168	170.
725	7.3	7.2	3.4	2.4	1.5	2.0	1.9	1.6	3.6	4.1		
	55.	58.	63.	70.	85	105.	130.	167.	169.	173.		

St 13.

725+50	8.4	7.4	4.8	1.8	1.5	1.2	1.5	1.7	1.1	1.5	2.5	2.8	3.9	4.2
	55	59.	74.	81.	98.	105.	124	137.	160.	165	166.	169.	170.	172.
726	7.9	7.8	5.5	3.0	0.5		1.5	1.7	1.6	0.8	4.8	5.6		
4.9 St. T.P.	55.	60.	65.	70.	78.		100	115.	138.	168.	173.	177.		
+50	7.9	7.7	6.2	3.0	-0.1		+0.5	+0.9	+0.4	+0.4	2.8	4.7	4.7	
	55.	62.	65	71.	76.		100.	132.	144.	169.	172.	175	177.	
727	8.1	8.0	3.2	2.5	0.3	0.0	0.5	1.4	1.5	0.9	3.8	5.2		
	60	63.	69.	72.	76.	100.	132.	137.	154	168.	174.	178.		
+50	8.4	8.3	3.2	2.4	1.3	1.0	0.7	0.6	0.8	0.6	1.1	4.6	5.6	
	61	63.	67.	73.	75	100.	116.	132	142.	158.	165.	176.	179.	
728.	7.6	3.0	2.4	0.7	0.3	0.4	1.2	2.5	3.8	4.3	4.7	5.8		
	60.	65.	71.	74.	100.	132.	158	165.	170.	174.	179.	181		
+50	7.5	4.0	3.1	1.0	0.2		0.0	0.1	0.3	0.9	3.6	4.5	7.2	
	61	65.	72.	75.	92.		116.	139.	162.	166.	170.	178.	181.	

1702

Oct 11/10 4.

Sta.

Sta.												
729	7.8	4.0	2.7	0.7	0.9	0.4	0.9	4.0	4.6	6.4	7.2	
	60.	69.	74.	92.	116.	136.	168.	173.	178	179.	182.	
750.	8.0	7.6	6.4	2.3	1.7	1.8	1.0	1.9	0.9	4.4	4.9	5.7
	59.	61.	72	79.	100.	119.	130.	147.	170.	176	179.	180.
730	8.4	6.7	5.5	4.4	0.0	0.0	0.4	0.0	0.6	3.4	4.8	5.1	5.8
	58.	61.	63	77.	81.	100.	124.	155.	172.	176.	177.	182.	183.
750	9.1	7.3	5.1	1.4	0.6	0.1	-0.3	-0.4	0.0	0.0	4.6	4.8	6.6	7.2
	58.	62.	64.	77.	86.	88.	115.	140.	158.	175.	181.	184.	186.	188.
731	8.4	6.6	5.0	4.6	3.7	0.9	0.3	0.0	0.0	0.0	4.0	4.1	5.0
	59.	62.	65.	76.	77.	84.	100.	125.	145.	178.	183.	184.5	185.
750.	8.5	6.0	4.9	3.7	0.9	0.3	0.0	0.0	-0.1	3.0	5.7	6.7
	60.	65.	76.	79.	84.	100.	122.	151.	182.	186.	187.	190.
732	7.8	7.8	5.9	4.3	2.2	1.7	1.6	1.1	2.0	2.2	2.0	2.8	2.6	4.0
	59.	60.	65	77.	89.	100.	118.	136	141.	162.	171.	173.	183	186.
											4.3	5.3
											189.5	188.

1703

Final X Sections of "H" Line Borrow Pit

H.D. Millard Contractor.

Oct 13/10 5.

Sta:												
732+50	7.6	7.4	6.3	4.9	4.1	2.5	2.0	1.4	1.0	0.7	1.1	3.5	5.2	5.3
	58.	60.	62.	71.	86.	89.	100.	124.	149.	169.	183.	187	188.5	191.
733	7.4	5.6	4.6	3.7	3.0	1.1	0.7	0.1	0.1	0.0	2.6	4.0		
	60.	64.	76.	81.	88.	90.	117.	136.	160	184.	186.	189.		
+50	9.0	8.5	4.9	2.9	0.1	0.2	-0.3	+0.1	-0.3	1.7	2.8			
	64	66.	69.	82.	90.	112.	140.	164.	184.	187.	189.			
734	7.2	4.7	3.3	2.8	1.5	0.3	0.1	-0.1	-0.1	+0.6	2.1	2.6	3.7	
	62.	68.	70.	82.	84.	93.	130.	150.	170.	185.	188	190.	191.	
+50	7.3	7.0	5.7	5.5	2.7	1.6	0.7	-0.3	+0.1	-0.1	-0.1	+0.4	6.0	
	55.	61.	64.	70.	75.	87	91.	100.	127	150.	170.	189.	196.	
735	6.1	4.6	3.9	2.5	0.0		-0.3	-0.3	+0.2	-0.8	+0.6	1.5	2.7	4.8
	61.	67.	75.	88.	90		100.	120.	150.	175.	194.	196.	200.	202.
+50	6.0	5.4	3.5	1.8	-0.1	-0.1	-0.6	-0.6	-0.4	+1.4	3.1	5.2	6.5	
	55.	65.	75.	85.	94.	110.	130.	160.	198.	201.	204	209.	212.8	

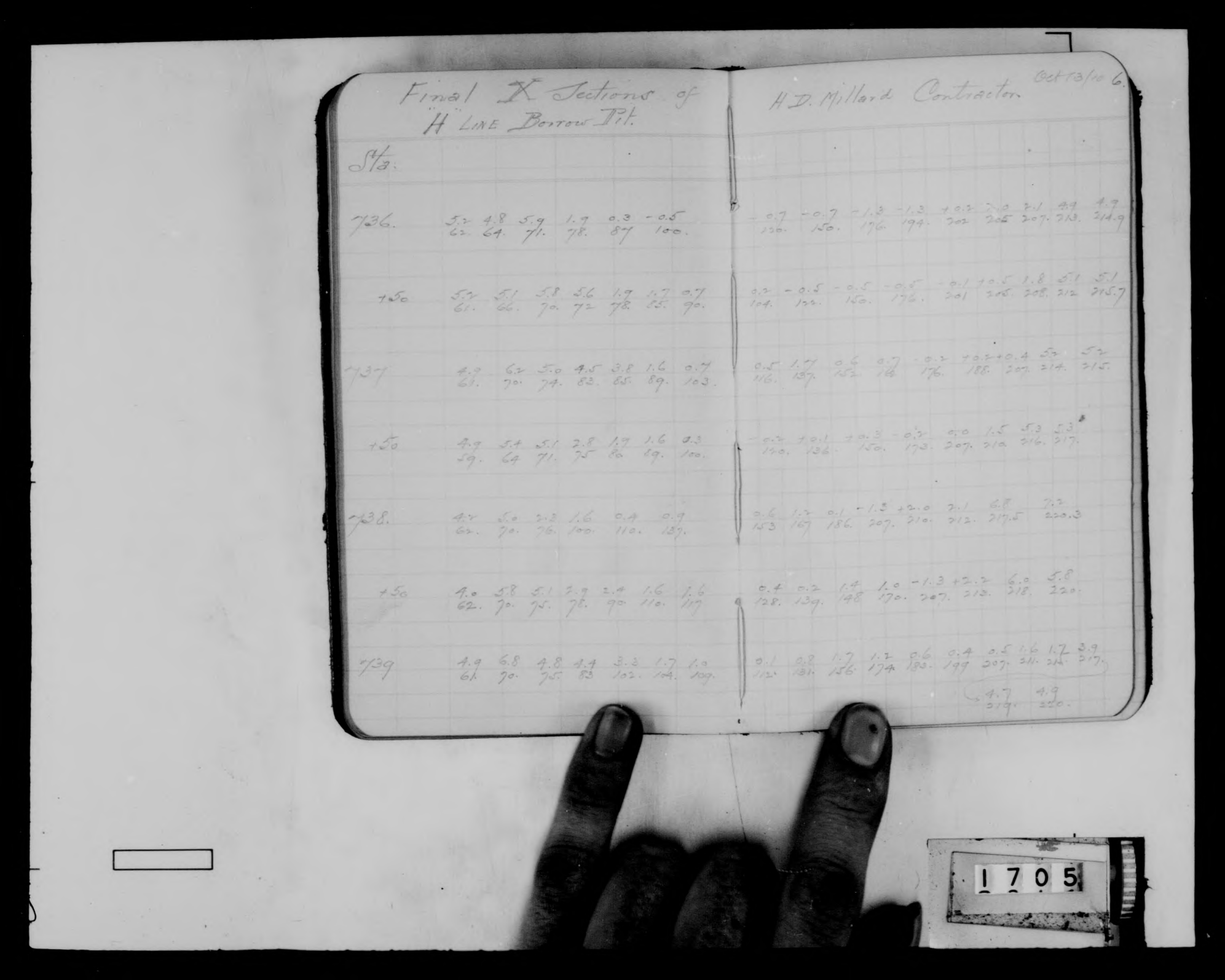
Final X Sections of "H" Line Borrow Pit.

H.D. Millard Contractor

Oct 13/10 6.

S½.

736.	5.2	4.8	5.9	1.9	0.3	-0.5		-0.7	-0.7	-1.3	-1.3	+0.2	2.0	2.1	4.9	4.9	
	62.	64.	71.	78.	87	100.		120.	150.	176.	194.	202	205	207.	213.	214.9	
750	5.7	5.1	5.8	5.6	1.9	1.7	0.7	0.2	-0.5	-0.5	-0.5	-0.1	+0.5	1.8	5.1	5.1	
	61.	66.	70.	72	78.	85.	90.	104.	122.	150.	176.	201	205.	208.	212	215.7	
737	4.9	6.2	5.0	4.5	3.8	1.6	0.7	0.5	1.7	0.6	0.7	-0.2	+0.2	+0.4	5.2	5.2	
	61.	70.	74.	82.	85.	89.	103.	116.	137.	152	166	176.	188.	207.	214.	215.	
750	4.9	5.4	5.1	2.8	1.7	1.6	0.3	-0.2	+0.1	+0.3	-0.2	0.0	1.5	5.3	5.3		
	59.	64	71.	75	80	89.	100.	140.	136.	150.	173.	207.	210	216.	217.		
738.	4.2	5.0	2.2	1.6	0.4	0.9		0.6	1.2	0.1	-1.3	+2.0	2.1	6.8	7.2		
	62.	70.	76.	100.	110.	139.		153	169	186.	207.	210.	212.	217.5	220.3		
750	4.0	5.8	5.1	2.9	2.4	1.6	1.6	0.4	0.2	1.4	1.0	-1.3	+2.2	6.0	5.8		
	62.	70.	75.	78.	90	110.	119	128.	139.	148	170.	207.	212.	218.	220.		
739	4.9	6.8	4.8	4.4	3.2	1.7	1.0	0.1	0.8	1.7	1.2	0.6	0.4	0.5	1.6	1.7	3.9	4.7	4.9
	61.	70.	75.	83	102.	104.	109.	112.	131.	156.	174	183.	199	207.	211.	214.	217.	219.	220.



Final X Sections
H Line Borrow Pit.

H. D. Mullard
Contractor

Oct 13/10

7.

S/S.

7/39+50	4.1	6.9	8.6	8.3	6.6	4.3	3.9	5.3	5.4	7.9	7.7	3.7	3.7	1.2
	62.5	70.	75.	87.	97.	104.	119.	132.	138.	182.	196.	200.	205.	224.5.
7/39+75	Orig: X Secs. C.O for Quantities.													

Oct 13/10 8.

Final: X Sections of "H." Line Borrow Pit.

H. D. Millard Contractor

Sta.

741 Orig: X Sections

+50 9.9 5.8 4.8 4.3 3.4 3.0 2.9 5.1 4.3 3.9 3.6 4.8 5.0
95. 83. 93. 102. 105. 114. 135. 150. 170. 180. 206. 211. 236

742. 5.9 4.0 2.7 2.0 1.8 1.0 0.7 0.0 -0.2 +0.8 1.9 +2.6 -0.3 -0.2 1.3 3.7 4.0
64. 69. 82. 87 92. 94. 101. 103. 118. 137 166. 187 200 229. 234 240 247
→ 5.5 6.4
→ 253 260.

+50 6.6 4.7 3.1 1.8 0.4 -0.5 +0.1 -0.6 -0.8 -0.7 -0.5 2.7 3.8 7.6 7.5
59. 64. 67. 76. 105 128. 150. 170. 189 242. 249. 261. 277. 292. 300

743 4.1 4.1 2.8 1.8 1.9 0.8 0.0 0.3 -0.9 -0.7 +0.4 +0.3 1.4 1.7 3.5 7.2 7.7
62. 64. 66. 76. 114. 136. 163 173 195. 228 249 259. 262 265 290. 297. 300

+50 3.3 1.6 1.0 1.5 1.2 1.2 0.2 0.6 0.1 0.1 0.8 0.1 1.2 0.9 2.0 2.3 2.6
68. 72. 93. 102. 116. 150. 170. 182. 200. 218. 230. 252. 258. 263 266 274. 285.
→ 3.6 5.3 7.6 7.7
289. 292. 297. 300.

1707

Final X Sections
H. Line Borrow Pit.

H. D. Mullard
Contractor.

9.

Sta.							
744.	4.0	1.1	1.0	1.8	1.7	0.5	0.7
	70	75	90	114.	134.	145.	170.
+50	5.7	3.0	1.8	1.1	0.7	1.8	0.5
	67.	71.	76.	78.	89.	104.	172.
745	5.0	1.9	0.7	0.8	1.3	0.7	-0.3
	67.	72.	76.	92.	116.	128.	148.
+50	5.0	2.8	0.3	-0.3	-0.9	-0.3	
	67.	70	77.	100.	125.	140.	
746.	5.1	2.4	2.0	1.1	-0.1	-0.3	-0.6
	67.	71.	78.	80.	88.	100.	149.
+50.	5.4	3.3	2.6	1.6	1.3	+0.5	-0.4
	66.	68.	80	82.	85.	87.	110.
+76.8	6.3	6.3	3.7	3.1	2.7	2.0	+0.7
	62.	64.	67.	80.	82.	84.	87.

	0.3	0.6	0.5	0.0	0.1	0.6	1.3	2.5	2.9	4.2	
	184.	200.	227.	251.	259.	260	267	277.	284	286	
							6.7	7.7	7.7		
							290	293.	300.		
	-0.4	-0.3	+0.8	1.1	0.0	-0.7	0.0	+0.2	2.4	2.7	
	132	170.	178.	192	210.	235	254	257.	271	272.	
							3.0	5.2	7.5	7.7	7.7
							278	281.	285.	287.	300.
	5.0	+0.7	+1.6	-0.4	-0.5	-0.2	0.0	1.0	2.2	2.4	
	167.	172.	193.	208.	231.	243	254	262.	264	269.	
							7.4	7.7			
							276.	278.			
	-0.4	+0.5	+1.1	1.3	0.2	-0.2	0.0	+0.8	3.2	7.7	
	154.	170.	185.	210.	231.	239.	245	250	256.	264.	
	-0.2	-0.5	-0.2	-0.2	+0.6	2.8	7.6				
	167.	183	215.	227.	232	239.	248.				
	-0.5	-0.5	-0.6	2.7	6.6	7.3					
	138.	178.	213.	217	225.	233.					
	-0.2	-0.4	-0.2	-0.5	+0.1	5.0	6.8				
	125.	148.	170.	202.	207	215.	216.				

1708

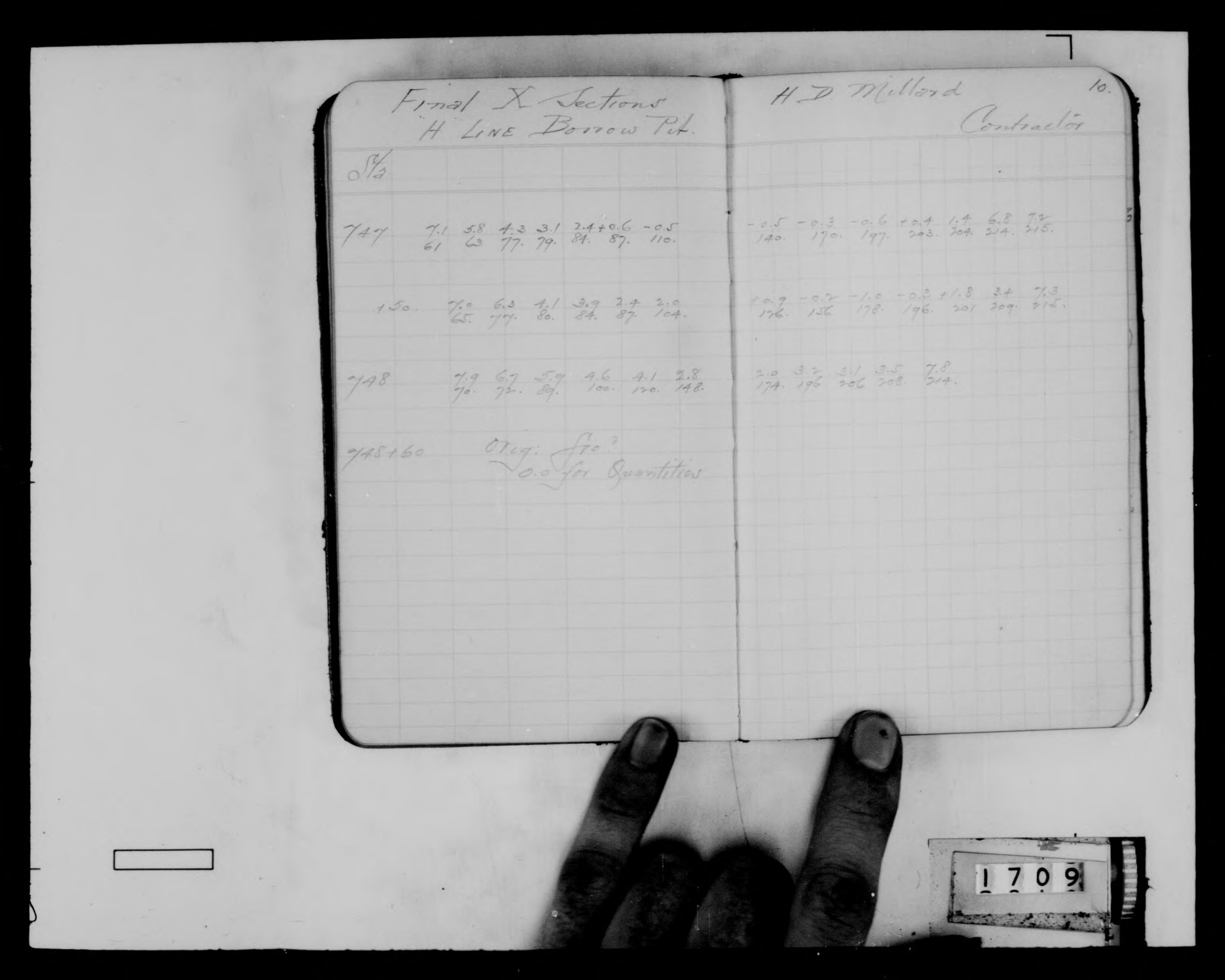
Final X Sections
"H" Line Borrow Pit.

H. D. Millard
Contractor

S½.

747	7.1	5.8	4.3	3.1	2.4	+0.6	-0.5
	61	63	77.	79.	84.	87.	110.
+50.	7.0	6.3	4.1	3.9	2.4	2.0	
	65.	74.	80.	84.	87.	104.	
748	7.9	6.7	5.9	4.6	4.1	2.8	
	70.	72.	89.	100.	120.	148.	
748+60	Orig: 170? 0.0 for Quantities						

	-0.5	-0.3	-0.6	+0.4	1.4	6.8	7.2
	140.	170.	197.	203.	204.	214.	215.
	+0.9	-0.2	-1.0	-0.3	+1.8	3.4	7.3
	176.	156	178.	196.	201	209.	215.
	2.0	3.2	3.1	3.5	7.8		
	174.	196	206	208.	214.		



Final Estimate
H. LINE.

Final X Sections of +19-20
add Quantities as explained on Page 14. as of dirt running into Borrow Pit from Dredger work.

Deduct Quantities as per Book Orig X Secs H LINE
add overhaul (?) Sta H Note on Page 49 (Exc: of 24" pipe)
+19+51.1 - +24 (?)

Jos Scanfield

For Notes of X Secs: Sammons Terree. which was raised 5 feet
See Book Orig: X Secs H. LINE Page 49.

For Notes of Road Xing at Sta H. 742+92 See page 16-17 of this Book.

H. D. Millard
Contractor

12.

H. LINE Borrow Pits Pages 1-10 of this Book. ✓

1710

H. LINE

X Sections of Borrow Pit

H. D. Millard Contractor. Sept 27/10. 14.

after Material had run into Borrow Pit from Dredger

Sta.	
745+50	Same as November 1909.
746	+5.1 +2.3 +1.7 +0.7 -0.3 67. 70 100 115. 176.
747	+7.4 +5.7 +5.1 +2.9 +2.2 +1.9 +1.4 60 62 70 85. 100 107 121.
748	+8.3 +6.7 +6.4 +5.0 70 72 78. 100.

* Note.

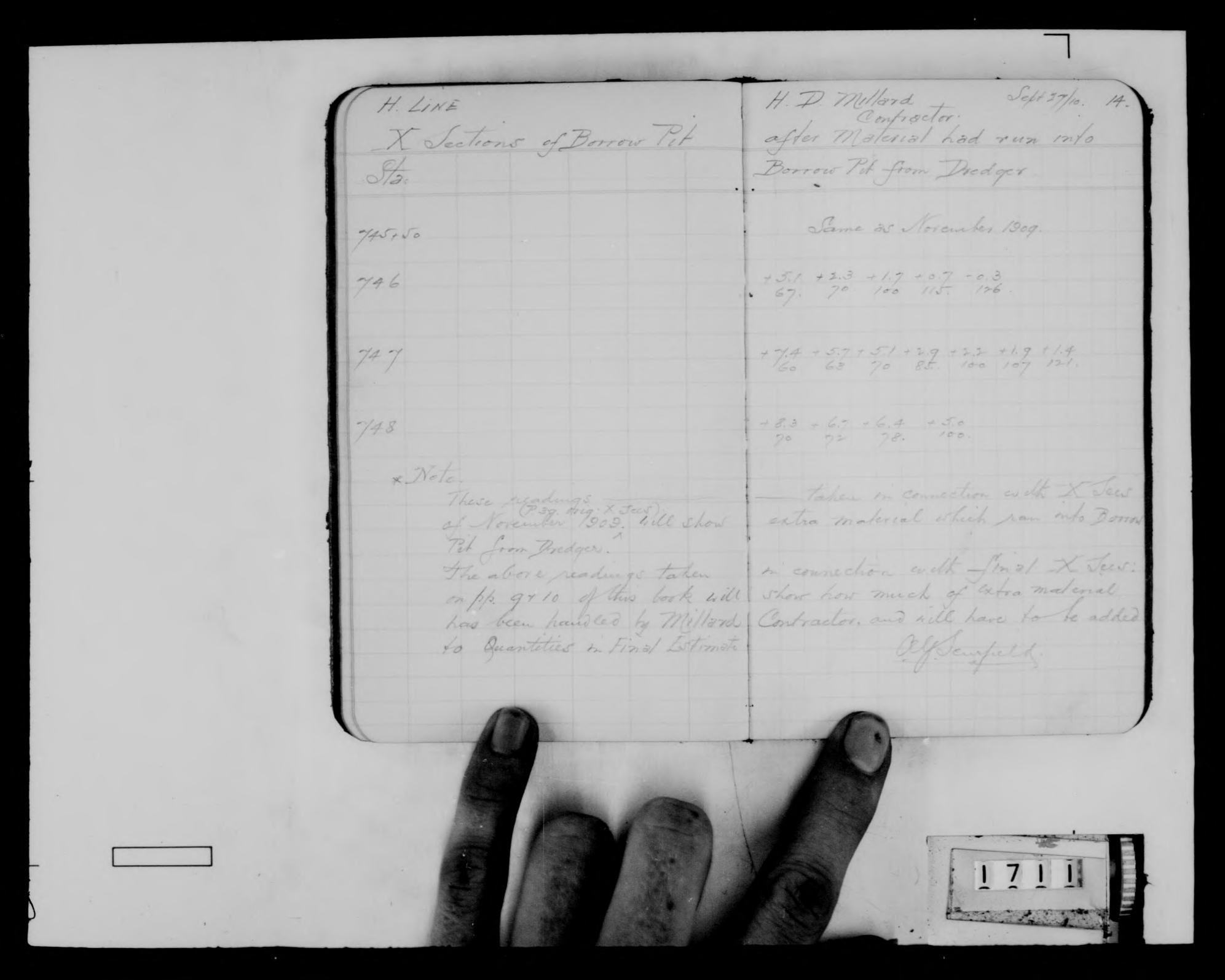
These readings (P39. orig. X Sec's) of November 1909. will show Pit from Dredger.

The above readings taken on p/p. 9 & 10 of this book will has been handled by Millards & Quantities in Final Estimate

——— taken in connection with X Secs extra material which ran into Borrow

in connection with Final X Secs: show how much of extra material Contractor, and will have to be added

O. J. Scofield.



X Sections of Road

Sta.	Grade on Right
± 0+12 Toe of Slope.	
0+00 = 10' out on Right H 742+92	25.1
0+50	21.6
1+	18.1
1+50	14.6
1+66	13.5
1+76	12.8

* Note. Add for hole filled adjacent to Road Xing
7.0 × 18 × 55 = 256.7 Cu. Yds

Xing at H. 742+92.

Road 16' wide
Grade on Right - 7.0 feet
" Left - 7.7 "

L.	C	R.
0.0	0.0	0.0
8.0		8.0
18.8 - 18.0 - 11.0 - 2.0		0.0
36 33 12.		8.0
- 13.0 - 10.6 - 5.6 - 4.1		0.0
27.5 15 8		8.0
- 3.0 - 3.0 - 2.9 - 2.0 - 1.1		
12.5 8.		8.0 9.6
- 0.9 - 0.9 - 1.1 - 1.3 - 4.0 - 6.7 - 5.7		
9.4 8 2 8. 13. 17.8		
0.0	0.0 - 0.7 - 1.6 - 4.0	
8.0	5 8 14.0	
0.0	0.0	0.0
8.0		8.0

See next page

X Secs: of Road Xing at H. 742+92. (Cont.d)
Road 16' wide
Grade - 7.7 feet

Sta:	Grade	on
0 = 10' out on Left 742+92	25.1	
0+25	23.9	
0+50	22.1	
0+65	20.8	

Left

L.	C.	R.
0.0	0.0	0.0
8.0		8.0
-15.6 -16.0	-3.5 -3.8	-3.9 -8.0 -9.4
31.4 27.	8.0	8.0 18. 23.1
-7.0 -7.0	-1.7	-1.9 -7.0
11.0 8.0		8.0 11.0
0.0	0.0	0.0
8.0		8.0

1713

FINAL X Sections of Borrow Pit. Between Sta. H741 & H748+60 on "H" LINE H.D. Millard Contr

See also pp. 8-10.

Original

Sta.								
0								
0+50		4.8	3.7	3.2	2.4	0.6	1.7	
		88.	80.	65.	55.	30.	12.	
1	4.9	1.8	1.8	1.4	+0.4	-0.2	-0.4	0.5
	114.	100.	90.	81.	74.	52.	36.	8
+50	3.9	2.7	1.6	1.8	1.7	0.8	0.9	+0.2	-0.2
	126.	124.	118.	82.	72.	52.	38.	24.	13.
2	3.9	2.8	1.3	1.1	1.6	1.1	1.6	0.5	0.6
	132.	130.	127	124.	100.	73	59.	42.	11.
+50	4.9	2.8	1.7	0.6	1.6	1.3	-0.2	0.6	1.1
	139.	134.	131.	118.	100.	82.	70.	47.	25.
3	5.0	1.6	1.0	1.3	0.9	1.7	0.2	-0.4	0.9	2.1
	140.	134.	131.	122.	112.	93.	82.	53.	38.	19.
+50	5.0	2.9	0.7	0.0	-0.4	-0.6	-0.4	0.0	0.3
	135.	133.	126.	120.	100.	85	62.	34.	17.
4	5.2	7.5	2.7	1.0	0.4	-0.2	-0.5	-0.8	-0.5
	127.	123.	114.	111.	104.	85.	65	35.	12.
+50	6.0	3.4	2.0	1.0	0.4	+0.2	-0.5	-0.7	+0.5
	115.	111.	97.	92.	80.	75.	65.	50.	20.

Ground

Sta.								
0+00	3.7	5.0	5.6	3.4	5.1	7.0		
		7.	27.	62.	79	81.		
0+50	0.4	-0.3	+0.5	-2.8	+0.3	1.9	4.1	5.9	6.9
		6.	15.	30.	45	59.	61.	75.	77.
1+00	-0.9	-0.8	-0.3	0.8	2.3	4.2	7.1		
		50.	64.	68.	72.	80.	100.		
1+50	0.0	0.2	0.5	0.7	0.7	1.8	2.6	3.5	7.3
		16.	28.	39.	64.	66.	55.	72.	100.
2+00	0.8	2.8	+0.2	0.0	0.5	2.3	3.0	4.1	5.9	7.7
		9.	32.	49.	62.	69.	76.	78.	83.	85.
2+50	-0.4	-0.6	-0.2	0.2	1.1	2.2	2.5	7.5
		16.		29.	48.	54	56.	61.	67.
3+00	0.3	0.0	0.0	0.7	2.8	7.4
			20.	32.	35.	42	49.
3+50	-0.2	-0.4	0.5	4.3	5.0	6.8
			21.	23.	28.	29.5	30.
4+00	-0.5	-0.6	0.9	2.6	2.5	5.5	6.8
			24.	32.	33.	41.	43.	46.

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FINAL

X Sections of Borrow Pit
Bat: S½: H 741 + H 748 + 60.

	S½:							CEN:							
5		7.8	6.0	3.8	3.3	0.7	0.2	0.6	-0.1	-0.8	-0.4	0.1	1.8	3.9	5.7	7.6
		100.	80.	79.	73.	71.	48.	17.		30.	34.	41.	49.	58.	61.	65.
+50	8.5	7.2	6.4	4.7	4.4	3.8	4.5	3.7	3.8	3.2	3.3	4.2	4.8	5.8	6.8	8.1
	74.	72.	59.	55.	48.	46.	23.	12.		65.	57.	53.	76.	77.	80.	82.
6					original				7.8 found							

See also pp 8-10.

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